

From: [Earl Liverman](#)
To: [Dan Opalski](#)
Cc: [Richard Mednick](#)
Subject: Avery Landing
Date: 07/23/2009 12:58 PM

Dan,

Please consider the following in response to your question, and advise if more is needed.

Metals

- The table mistakenly lists only six metals for GW, SW, and sediment. Potlatch had agreed to 13 Priority Pollutant metals.
- All metals (except Hg) are analyzed by an ICP instrument, which analyzes all metals simultaneously from the same small sample extract. There is an added cost associated with each additional metal, but those costs are incremental and due to extra calculations and QA (e.g. if you run one sample for Pb, the other 21 TAL metals (excluding Hg) are also automatically analyzed by the instrument, but they are not reported). Most laboratories charge \$15 to \$20 for the first metal and an additional \$7 to \$10 for each additional metal. A typical price for Priority Pollutant metals (13, including mercury) is about \$120 per sample, and a typical price for the 23 TAL metals (including mercury) is about \$160.
- Hg is a separate analysis that costs about \$25. But, both the AOC and the EPA lists include mercury, so there is no difference here.

PAHs/SVOCs

- The table indicates the same list of PAHs for the AOC, EE/CA, and EPA; thus, no difference.
- Potlatch is requested to analyze for the full SVOC suite for the western soils and for sediment, which includes PAHs and many more SVOC compounds. Similar to metals, PAHs are included in the full SVOC suite, and the instrument typically analyzes for everything, regardless of what analyte(s) will be reported. For the full SVOC suite, there is an additional sample preparation step beyond what is required for the PAHs, and there is additional QA and calibration standards. Thus, the full suite of SVOC analysis does cost more than PAHs. A typical price might be \$165 for PAHs and \$225 for the full SVOC list.

VOCs

- EPA is requesting VOCs for soils on the western half and in sediment, while Potlatch planned not to perform them.

Please also note that Potlatch's estimate of \$38,000 includes both the analytical and CLP requirements, which are two separate issues. The analytical component is likely about \$20,000 - \$25,000.



Earl Liverman
Federal On-Scene Coordinator
USEPA Coeur d'Alene Field Office
1910 Northwest Boulevard, Suite 208
Coeur d'Alene, Idaho 83814
Telephone: 208.664.4858
Cellular: 208.651.8709
Fax: 208.664.5829
E-Mail: liverman.earl@epa.gov